Fig.1

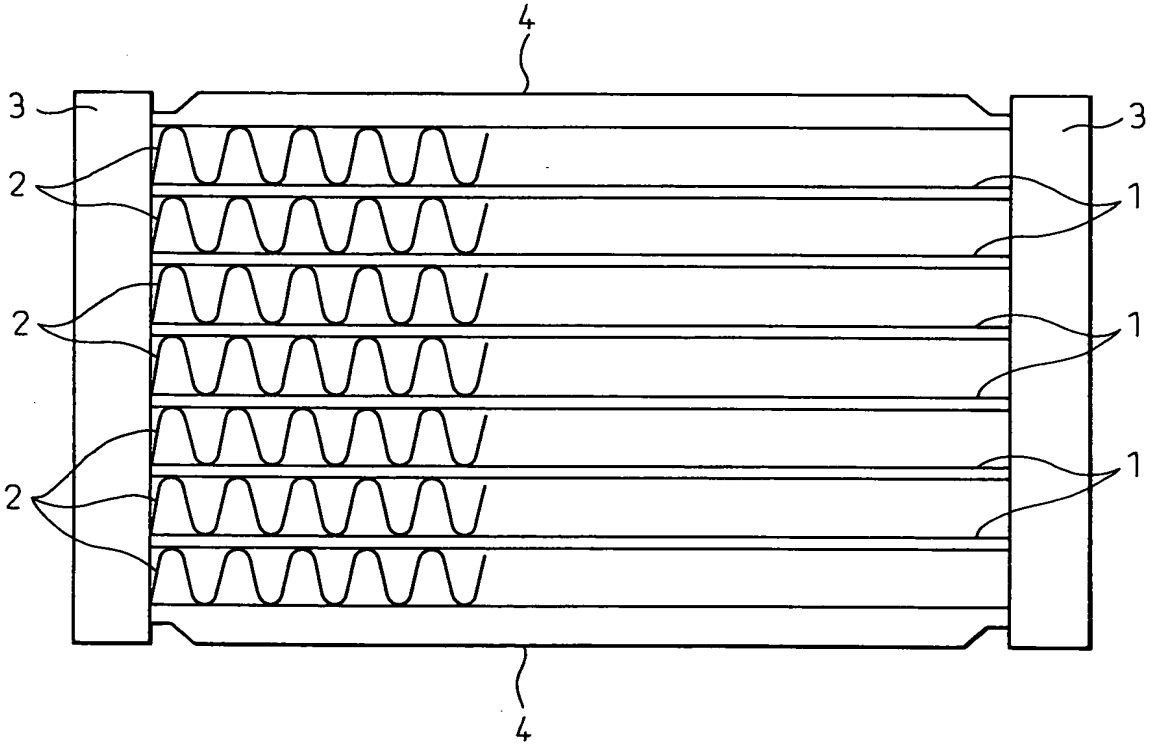


Fig.2A

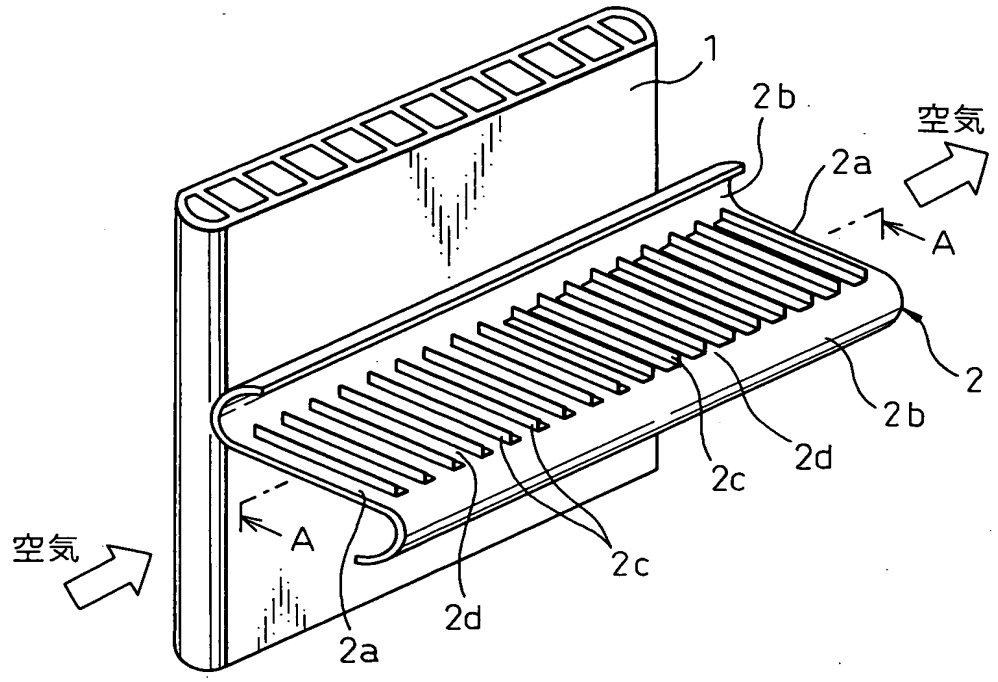

1
2b
空気
2a
A
2
2b
2d
2c
2c
空気
A
2d
2a

Fig.2B

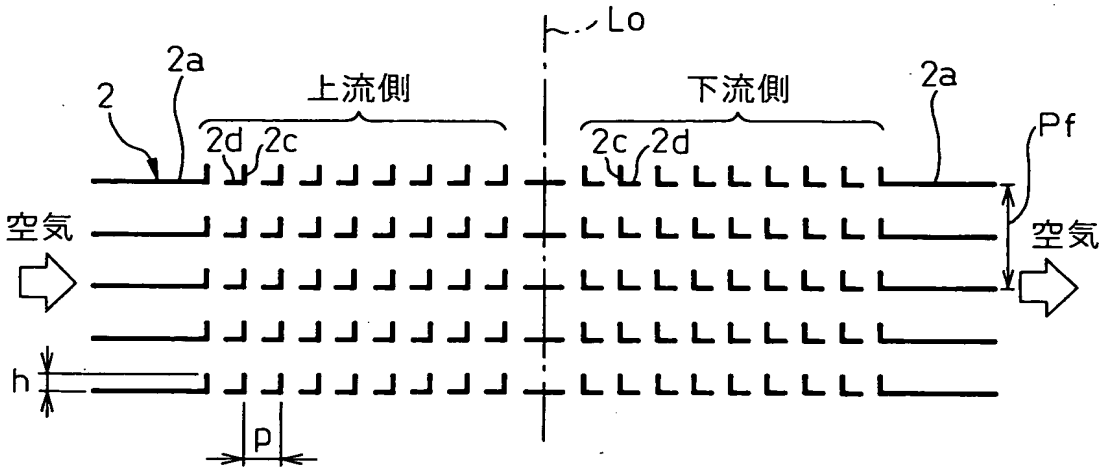

Lo
2a
2
上流側
下流側
2a
Pf
2d
2c
2c
2d
空気
空気
h
p

Fig.3

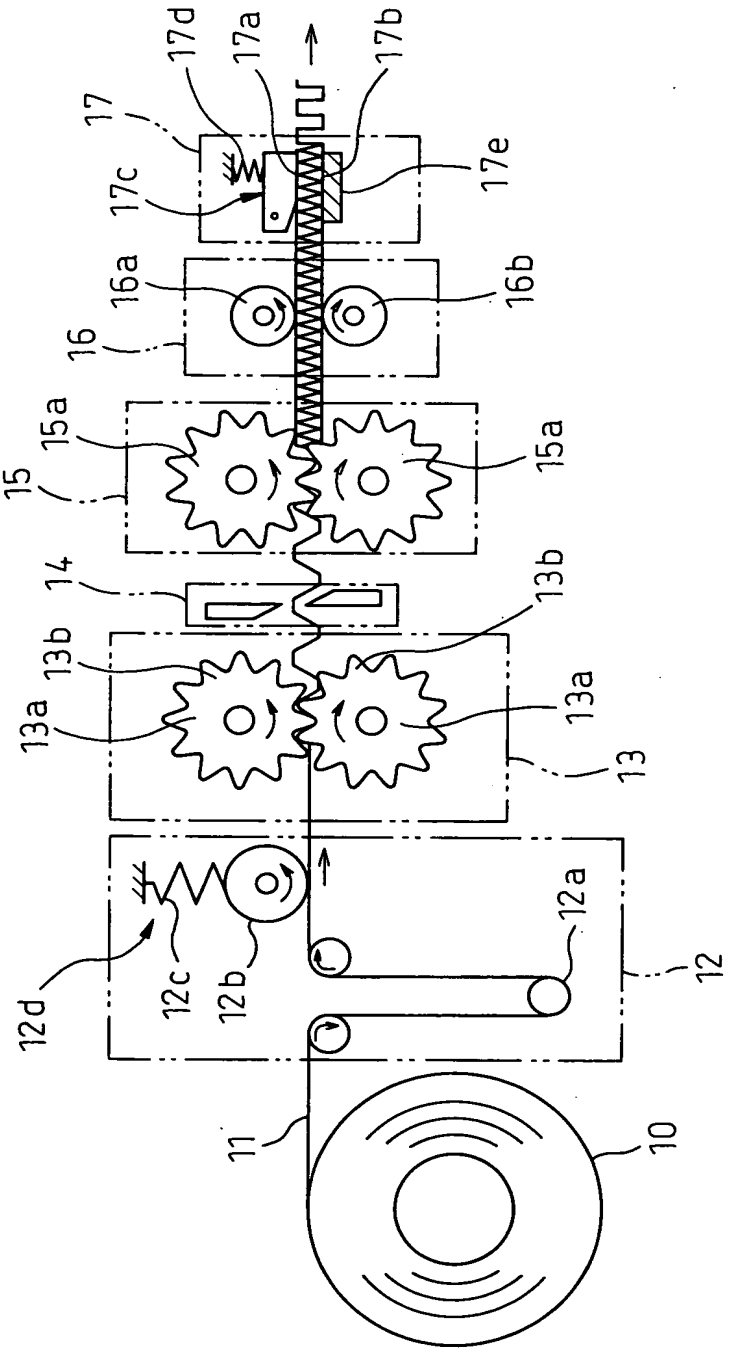

17d
17a
17b
17
17e
17c
16a
16b
16
15a
15a
15
14
13b
13b
13a
13a
13
12a
12
12d
12c
12b
11
10

Fig.4

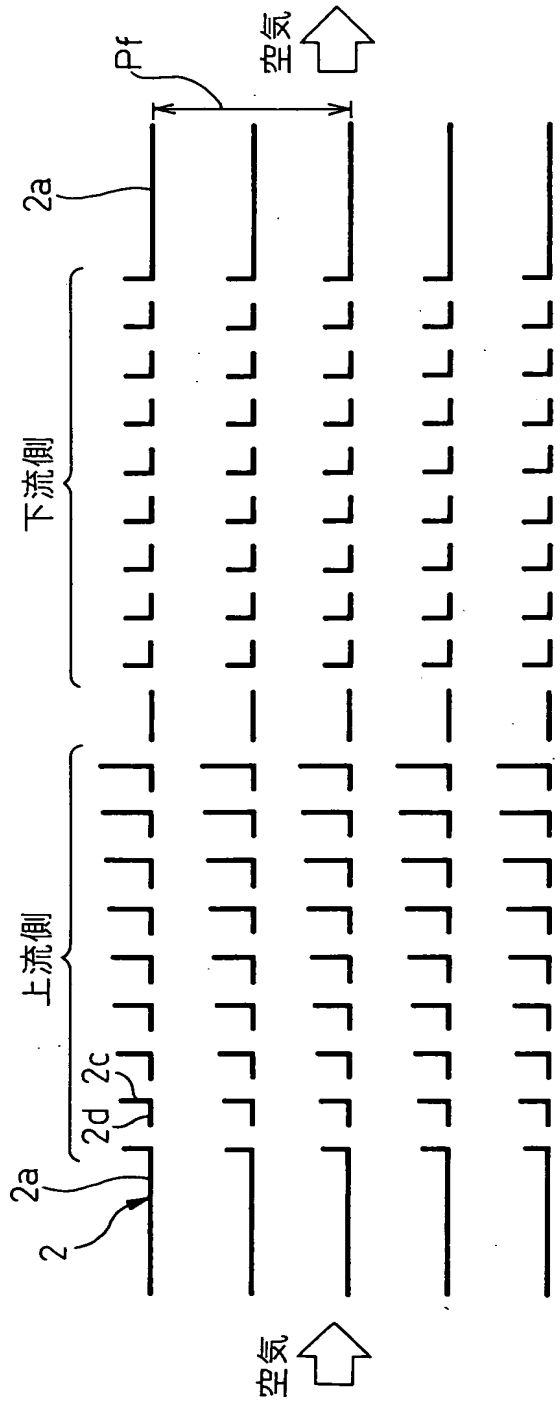
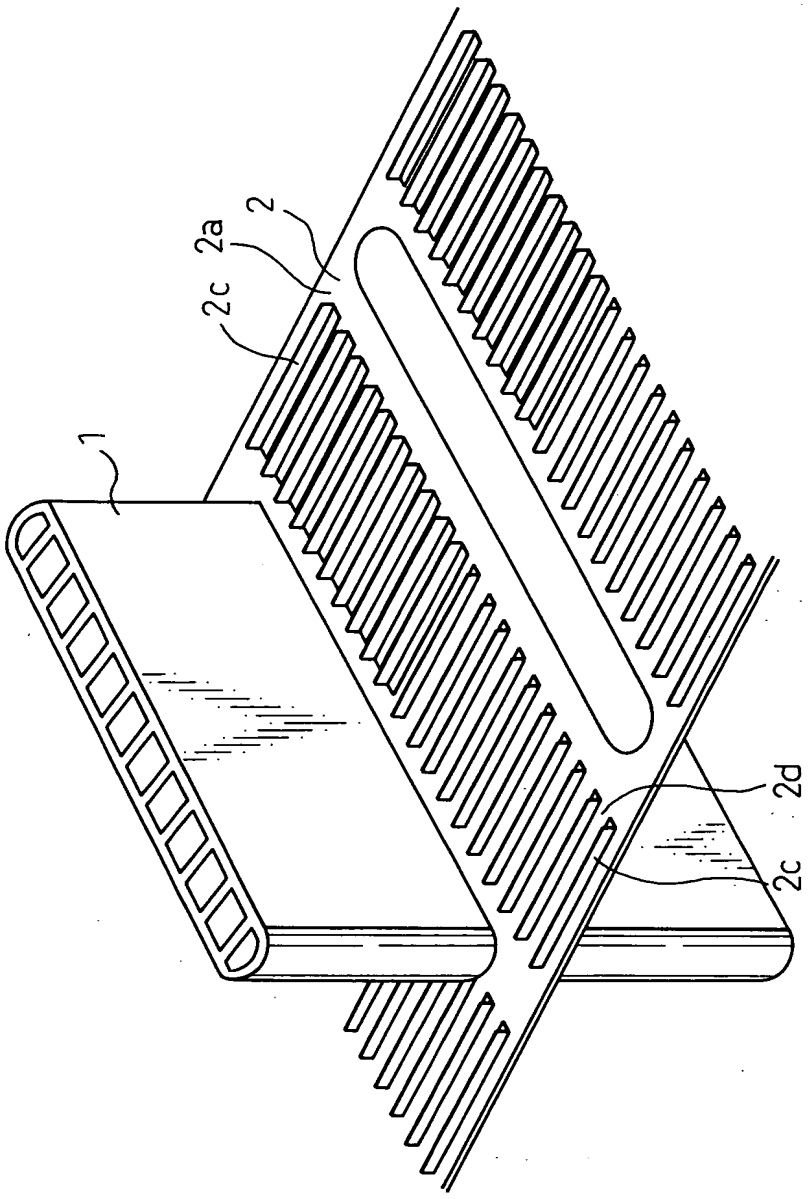


Fig.5



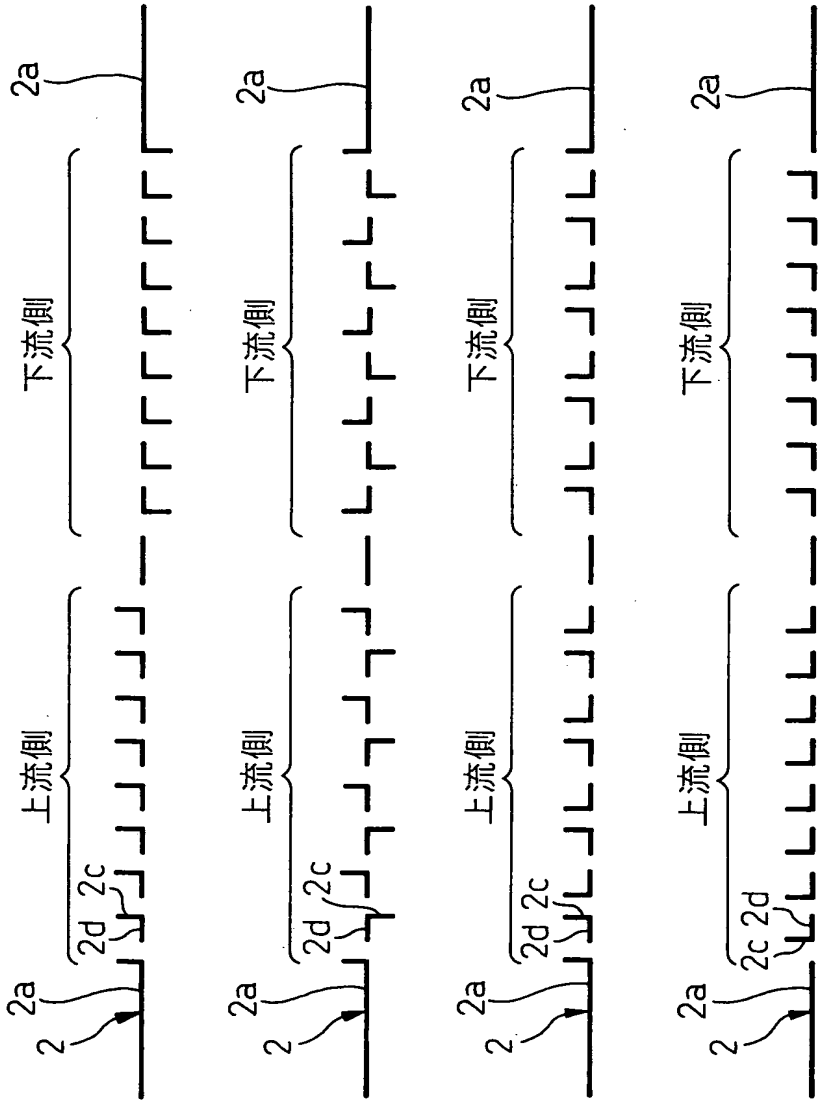


Fig.6A

Fig.6B

Fig.6C

Fig.6D

Fig. 7

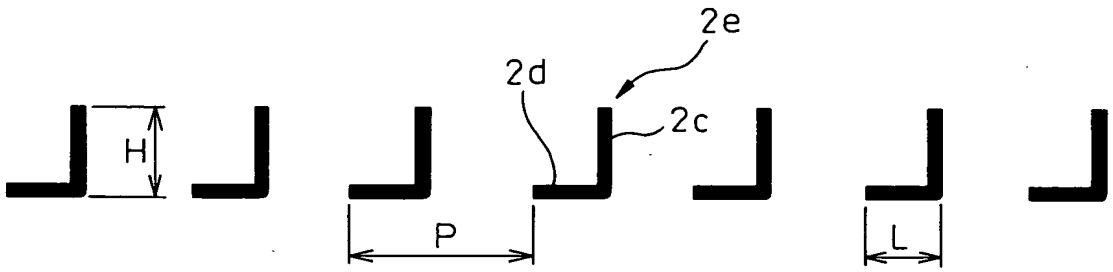


Fig. 8

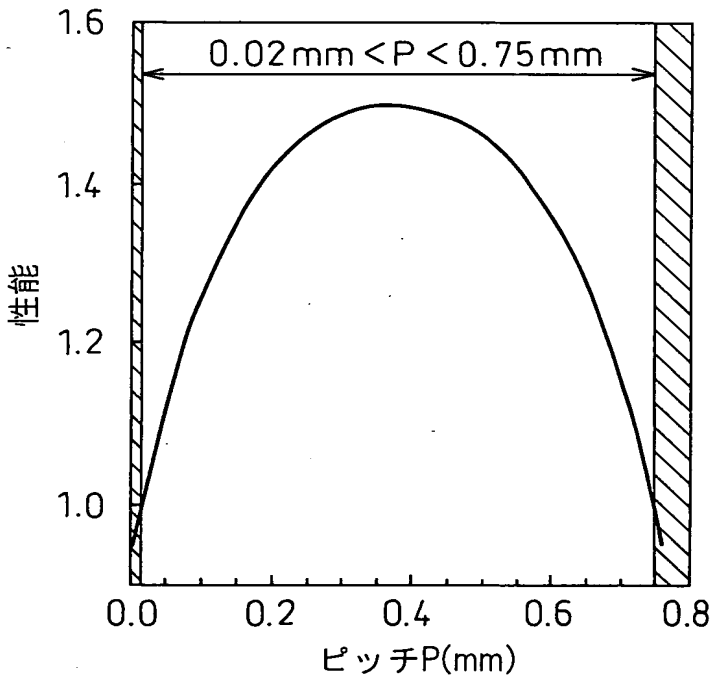


Fig.9

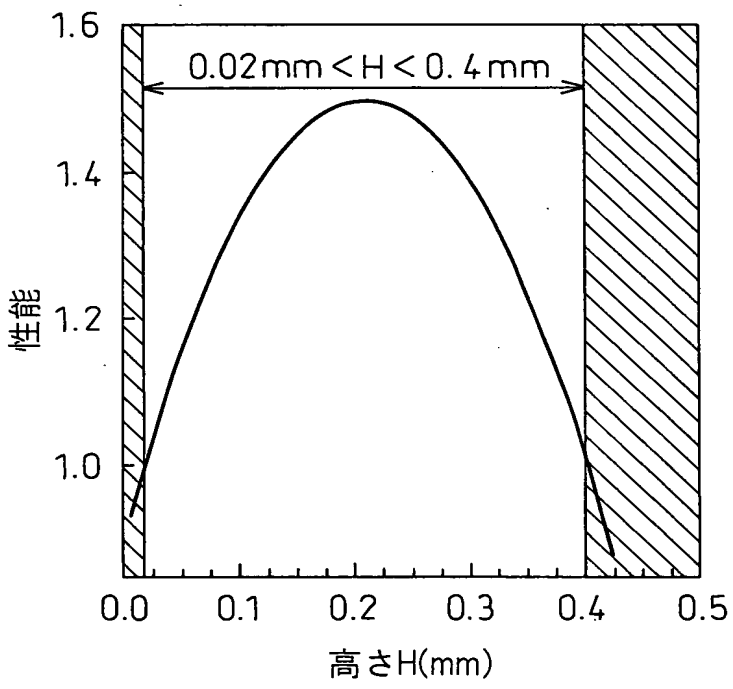


Fig.10

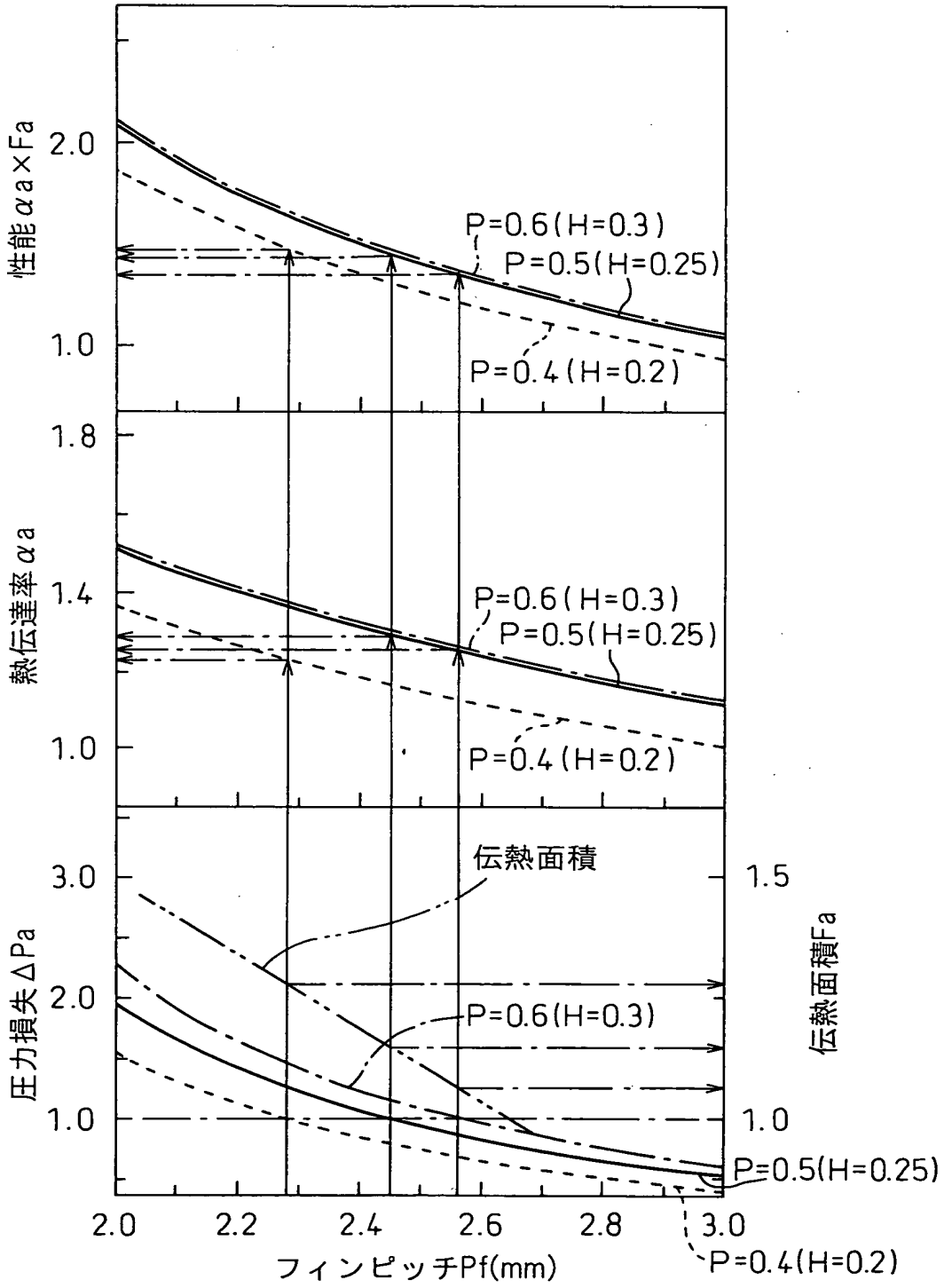

性能αa×Fa
2.0
1.0
P=0.6(H=0.3)
P=0.5(H=0.25)
P=0.4(H=0.2)
熱伝達率αa
1.8
1.4
1.0
P=0.6(H=0.3)
P=0.5(H=0.25)
P=0.4(H=0.2)
伝熱面積
圧力損失ΔPa
3.0
2.0
1.0
P=0.6(H=0.3)
P=0.5(H=0.25)
P=0.4(H=0.2)
1.5
1.0
伝熱面積Fa
2.0
2.2
2.4
2.6
2.8
3.0
フィンピッチPf(mm)

Fig.11

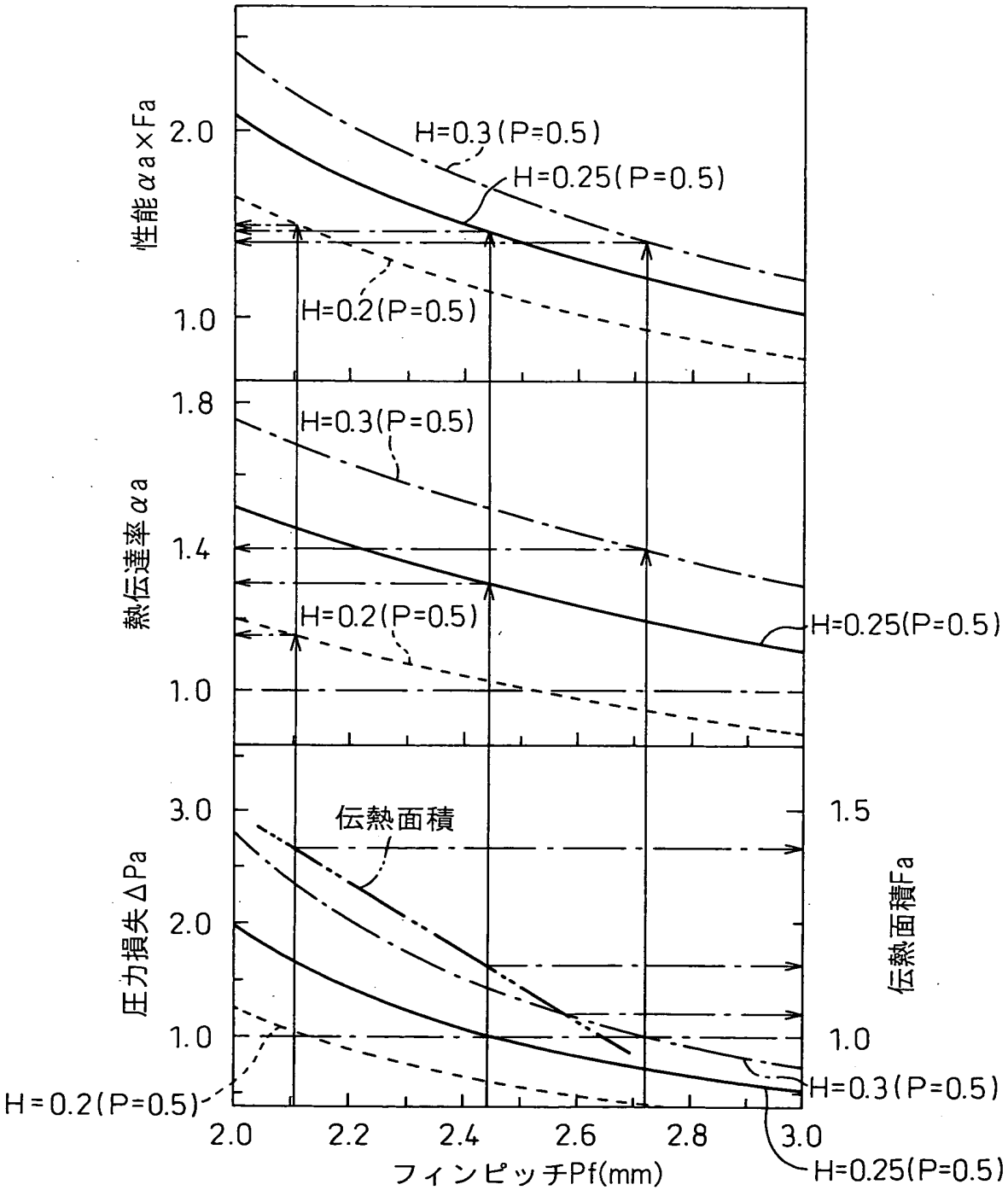

性能αa×Fa
2.0
1.0
H=0.3(P=0.5)
H=0.25(P=0.5)
H=0.2(P=0.5)
熱伝達率αa
1.8
1.4
1.0
H=0.3(P=0.5)
H=0.2(P=0.5)
H=0.25(P=0.5)
圧力損失ΔPa
3.0
2.0
1.0
伝熱面積
伝熱面積Fa
1.5
1.0
H=0.2(P=0.5)
H=0.3(P=0.5)
H=0.25(P=0.5)
2.0
2.2
2.4
2.6
2.8
3.0
フィンピッチPf(mm)

Fig.12

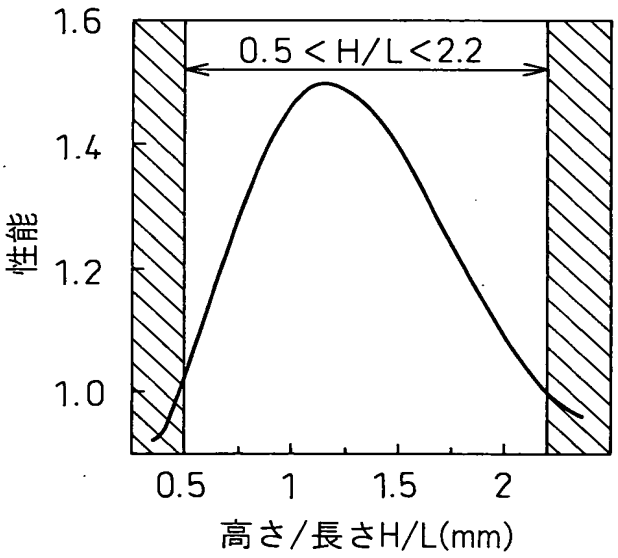


Fig.13A

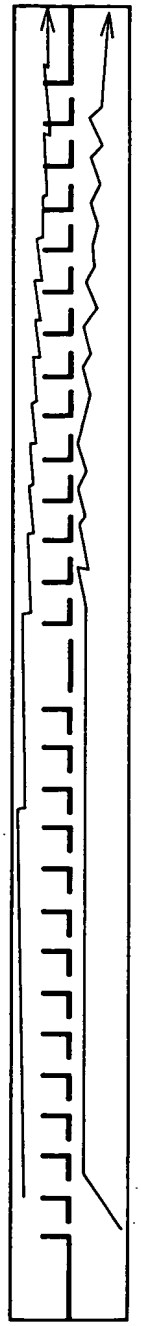
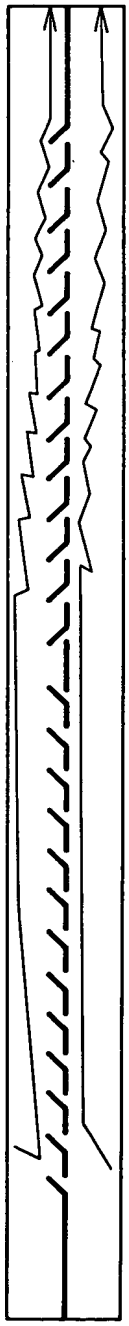


Fig.13B



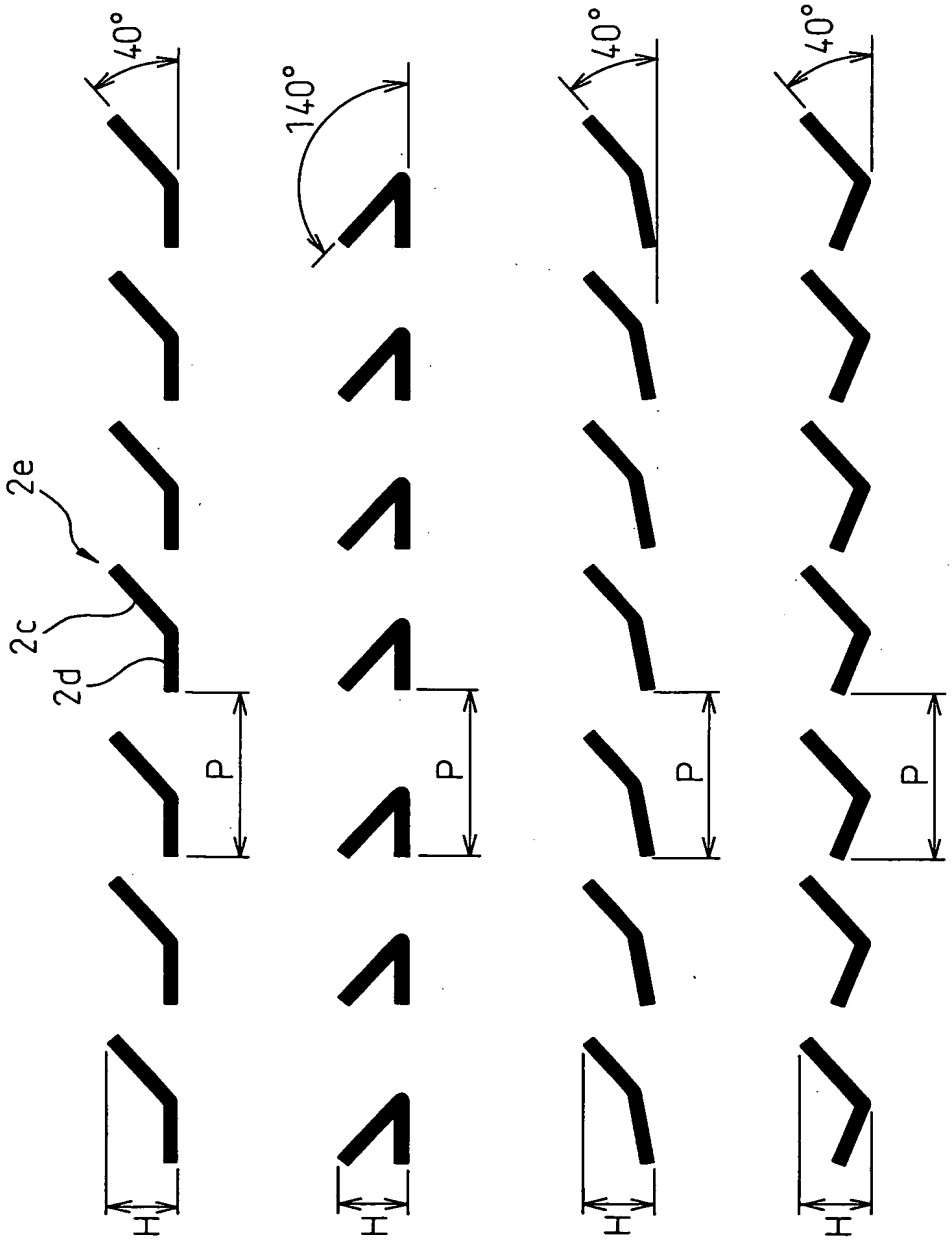


Fig.14A

Fig.14B

Fig.14C

Fig.14D

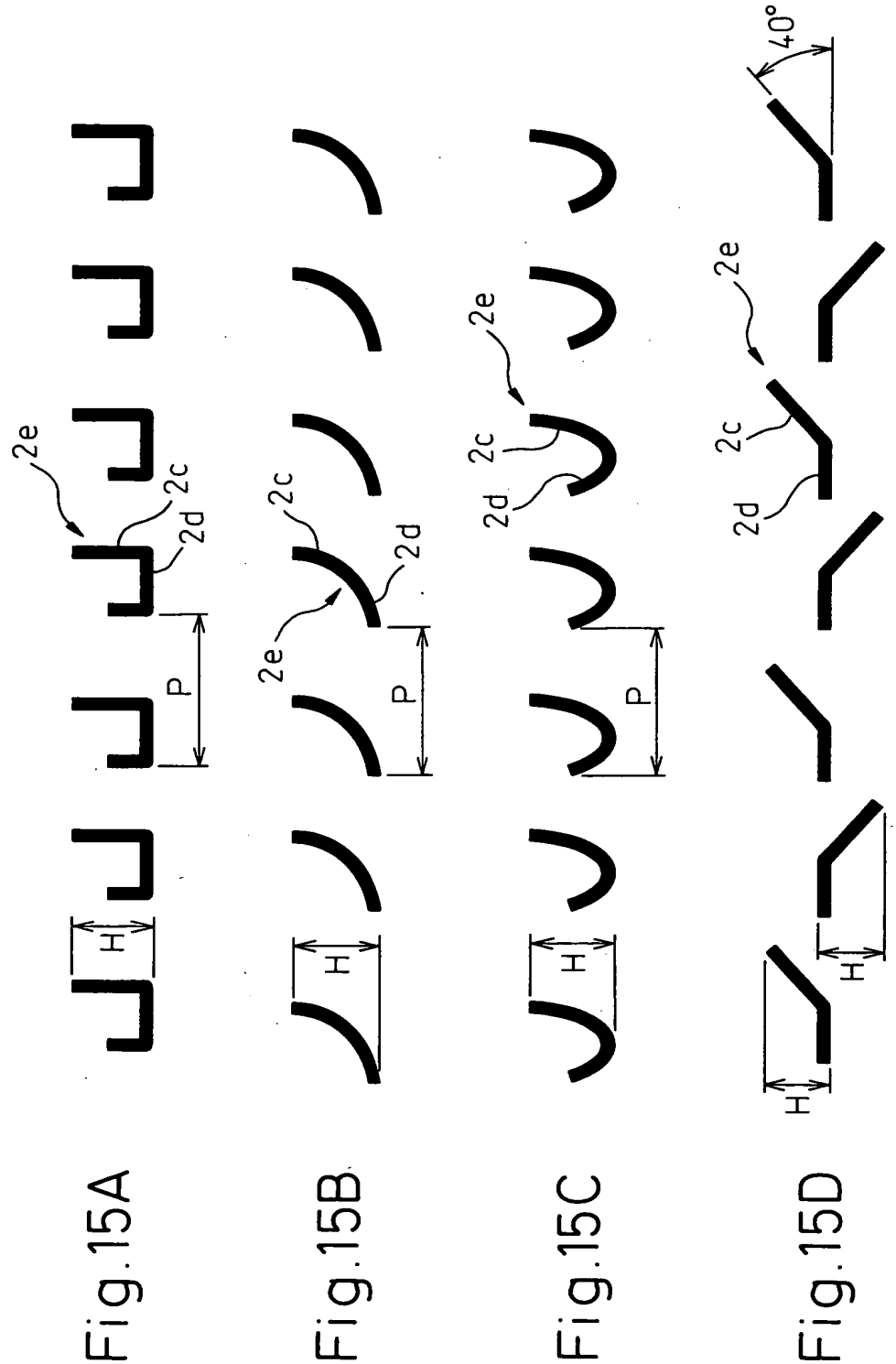


Fig.15A

Fig.15B

Fig.15C

Fig.15D

Fig.16

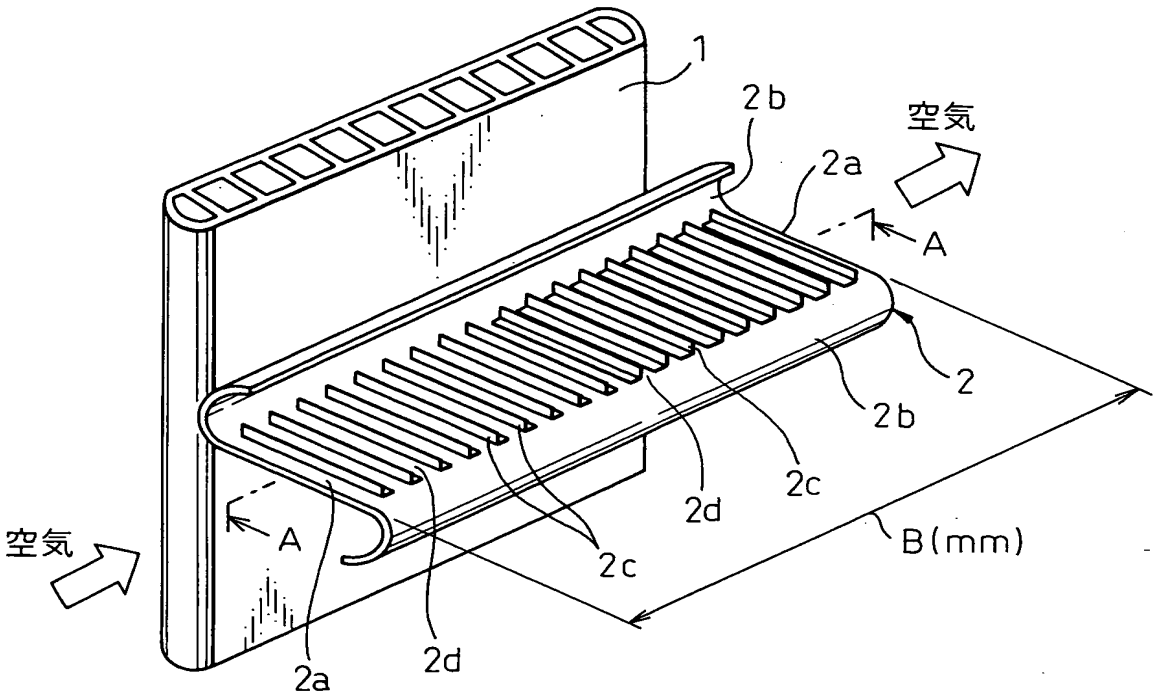
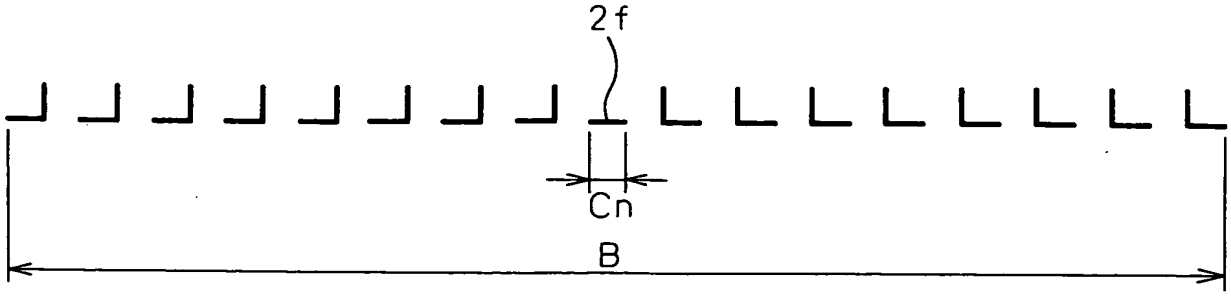


Fig.17



5mm＜B≦25mmかつCn＜1mm

Fig.18

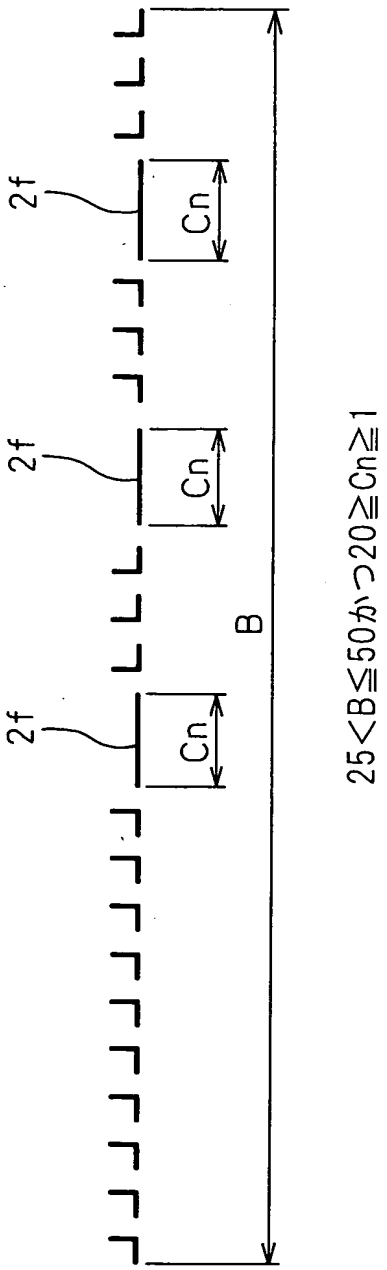


Fig.19

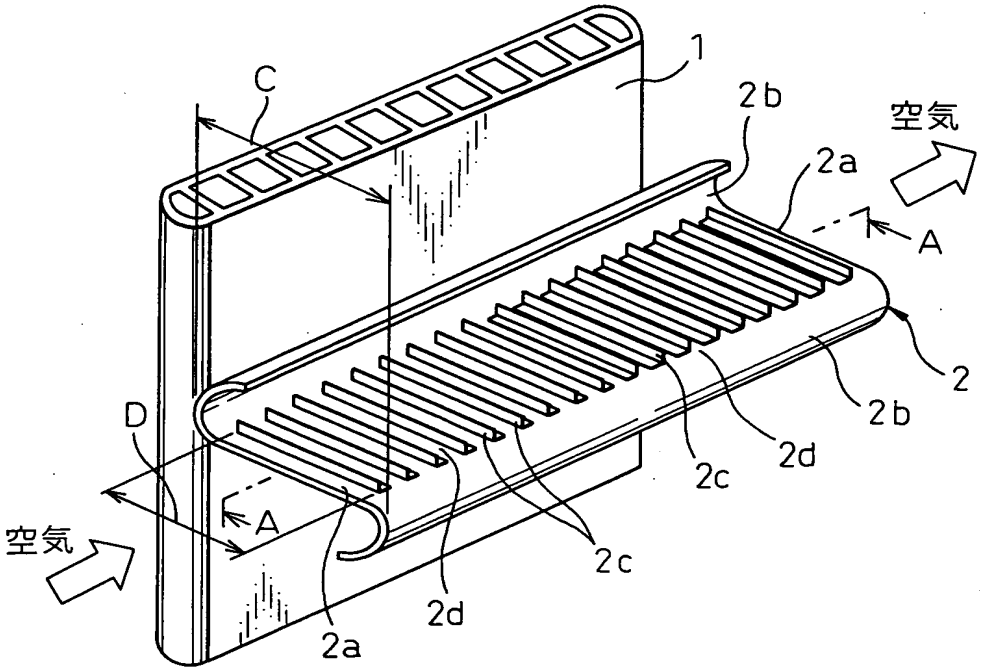
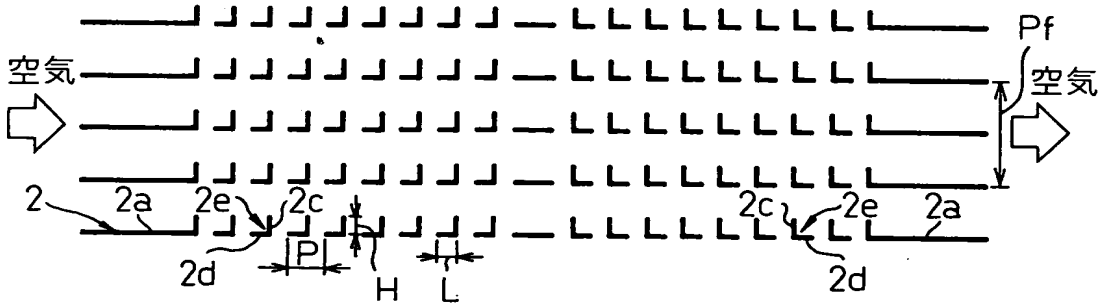
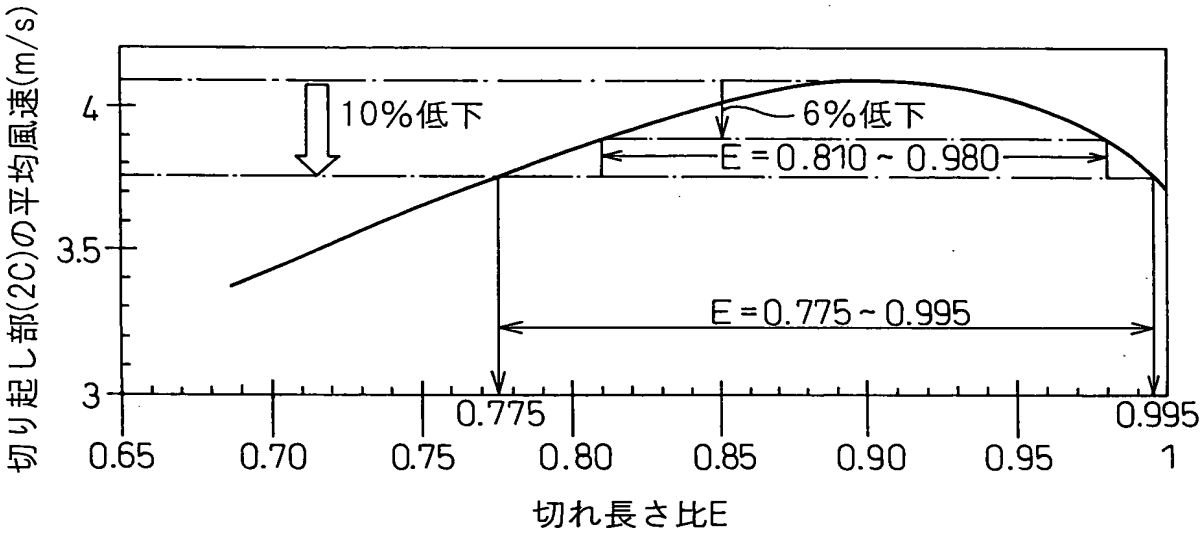


Fig.20



A-A断面

Fig.21



切れ長さ比(E)=切り起し部長さ(D)/フィン長さ(C)

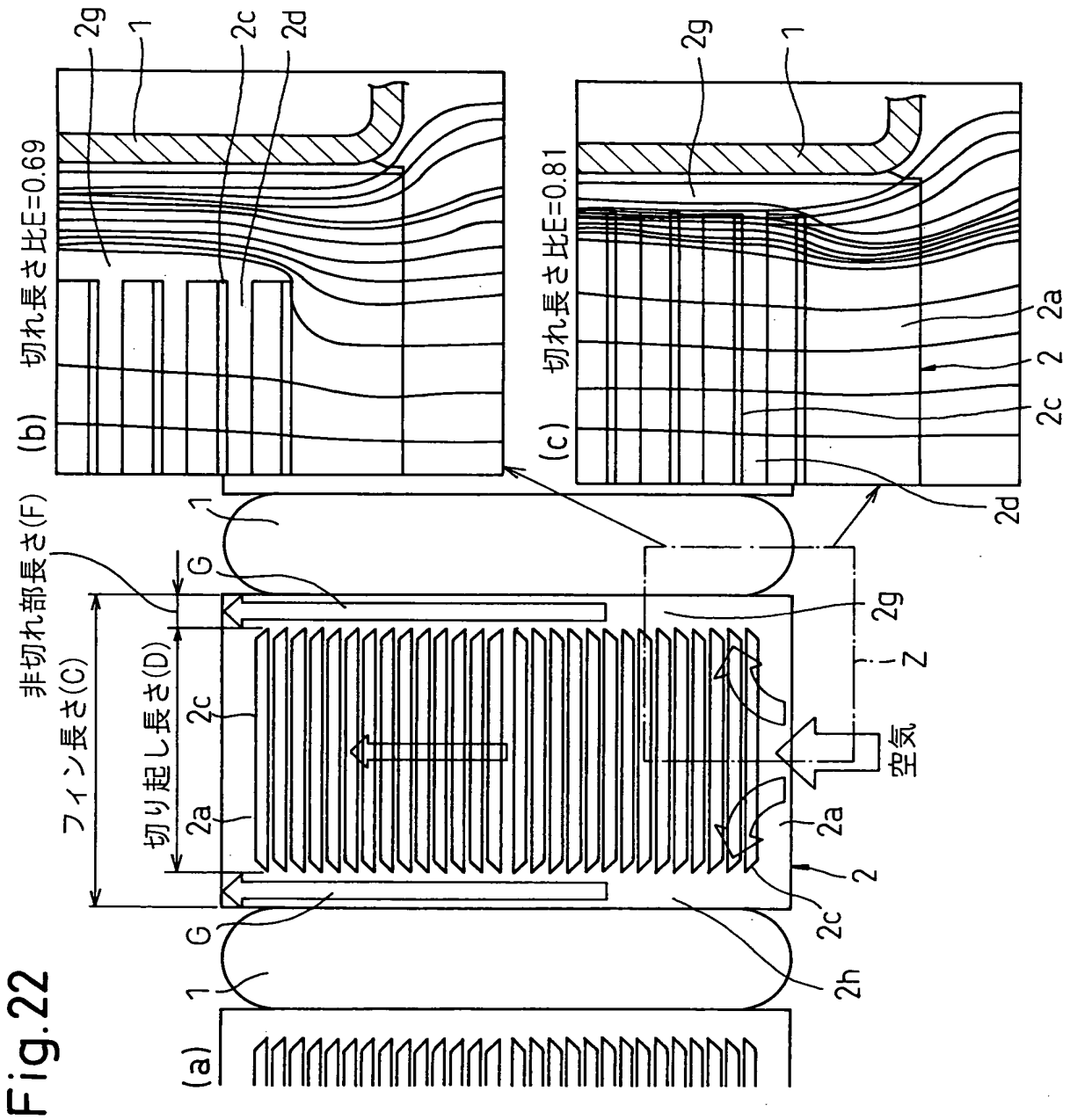

(b) 切れ長さ比E=0.69
(c) 切れ長さ比E=0.81
2g
1
2c
2d
2a
2
非切れ部長さ(F)
フィン長さ(C)
切り起し長さ(D)
G
Z
空気
2h
(a)

Fig.22

Fig.23A

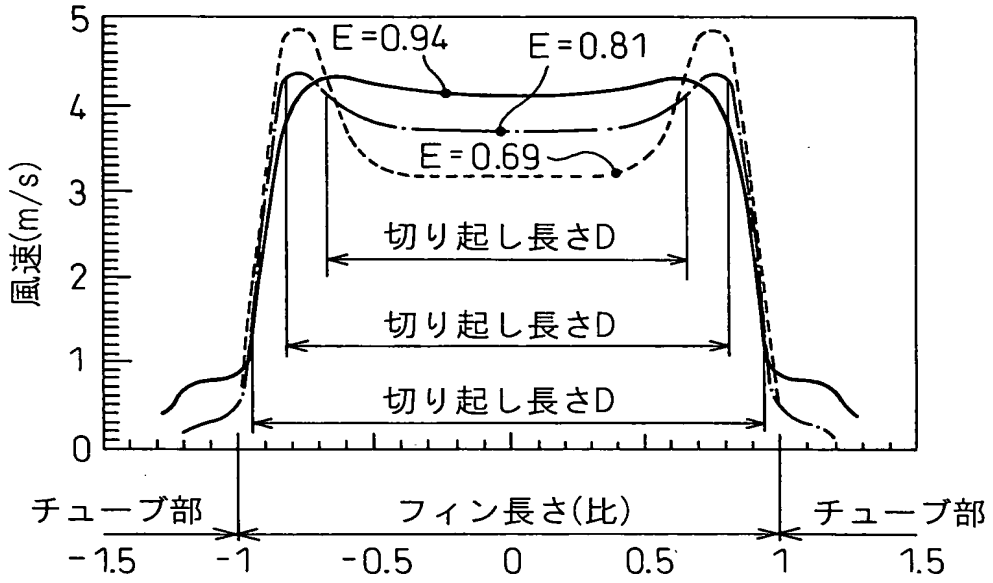


Fig.23B

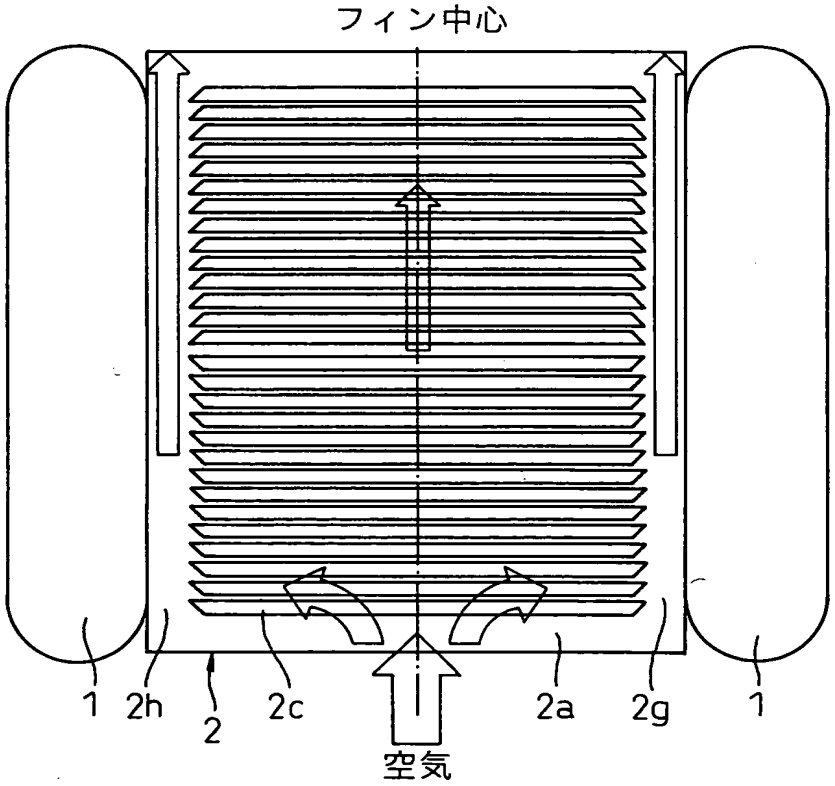


Fig.24

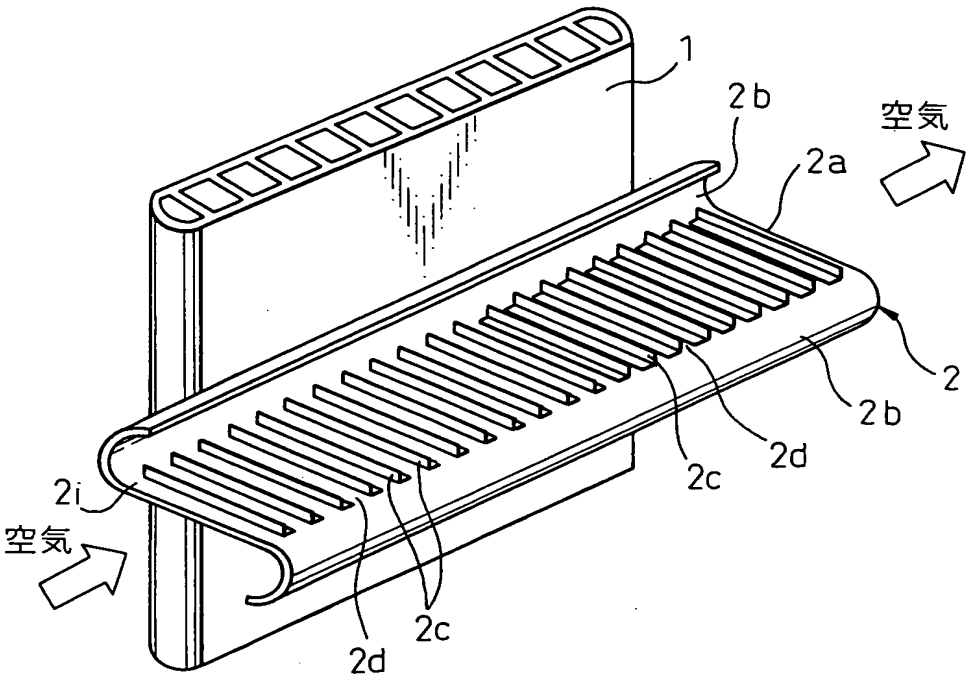
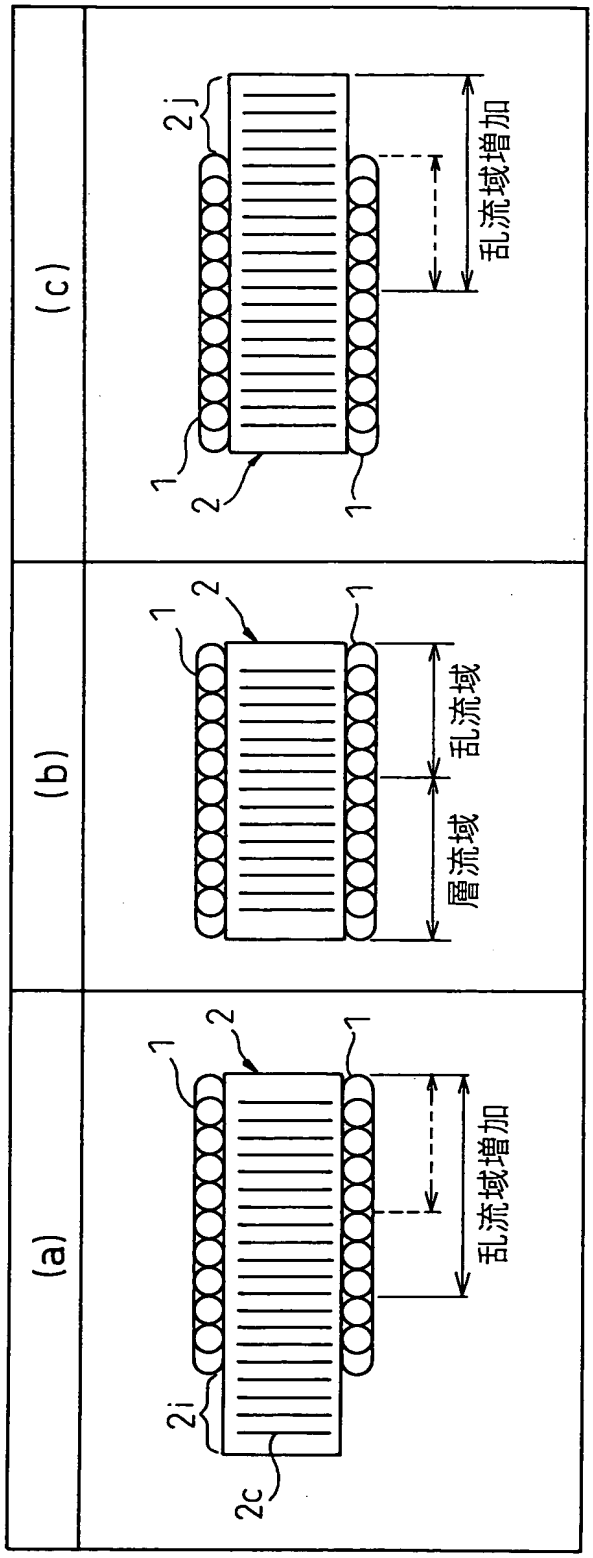



Fig.25